This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (currently amended): A gas discharge lamp with
 - a discharge vessel-(2);
 - electrodes (4, 5) projecting into the discharge vessel (2); and
- a translucent, electrically conductive screening (9, 23) which screens the discharge vessel (2) and comprises connection means (10, 11, 24, 27, 28) for providing an at least high-frequency connection between the screening (9, 23) and a screening (14, 17, 19) of an electrical system used for operating the gas discharge lamp (1) so as to form a coaxial screening system enclosing the discharge vessel (2) with the electrodes (4, 5) during operation of the gas discharge lamp (1); and
- a conductor track, situated along a surface of the gas discharge lamp screening that
 encloses the discharge vessel, having a lower omhic resistance than portions of the gas
 discharge lamp screening that is employed to enhance the conductivity of the gas discharge
 lamp screening.
- 2. (currently amended): A-The gas discharge lamp as-claimed in claim 1, eharaeterized-in that wherein the gas discharge lamp (1) comprises an outer bulb (8) surrounding the discharge vessel (2), and the screening (9) comprises a layer of conductive translucent material or a grid structure of conductive material arranged in or on a wall of the outer bulb (8).

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3. (currently amended): A-The gas discharge lamp as claimed in claim 1, characterized in

thatwherein the screening-(9) has an at least high-frequency connection to the screening

(14, 17, 19) of the electrical system used for operating the gas discharge lamp-(1) in two

mutually opposed locations of the gas discharge lamp-(1) during operation thereof.

4. (currently amended): A The gas discharge lamp as-claimed in claim 1, characterized in

that wherein at least one of the electrodes (5) is electrically connected to a supply line (13)

comprising a screening-(14), and the screening-(9) of the gas discharge lamp-(1) is

connected with electrical conduction to the screening (14) of said supply line (13).

5. (currently amended): A-The gas discharge lamp as claimed in claim 1, eharacterized

 $\underline{\text{bywherein}}$ a supply line $\underline{\text{(25, 26)}}$ extending inside the screening $\underline{\text{(9)}}$ of the gas discharge

lamp-(1) and connected to one of the electrodes-(5).

6. (currently amended): A- $\underline{\text{The g}}$ as discharge lamp as-claimed in claim 1, eharacterized in

 $\frac{1}{1}$ the screening $\frac{1}{1}$ of the gas discharge lamp $\frac{1}{1}$ is connected with electrical

conduction to a screening (17) of a lampholder during operation of the gas discharge lamp

(1).

7. (currently amended): A gas discharge lamp as claimed in claim 1, characterized in that

comprising:

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a discharge vessel;

electrodes projecting into the discharge vessel;

- a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas discharge lamp so as to form a coaxial screening system enclosing the discharge vessel with the electrodes during operation of the gas discharge lamp.
- wherein the screening of the gas discharge lamp serves as a <u>power</u> supply line and is electrically connected to one of the electrodes.
- 8. (currently amended): A-The gas discharge lamp as-claimed in claim 7, eharacterized in that wherein the electrode-(5) is connected to a supply line-(30) which is arranged in parallel to the screening-(9) of the gas discharge lamp-(1).
- (currently amended): A-The gas discharge lamp as-claimed in claim 8, eharaeterized bywherein an inductive element (31) included in the additional return line (30).
- 10. (currently amended): A-The gas discharge lamp as claimed in claim 7, eharacterized in that wherein the screening (9) of the gas discharge lamp (1) is coupled to a screening (17) of a lampholder via a capacitive component (28) during operation of the gas discharge lamp (1).

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11. (currently amended): A-The gas discharge lamp as-claimed in claim 7, eharacterized-in thatwherein the screening (9) of the gas discharge lamp (1) is connected to the other electrode (4) via a capacitive component (29).

12. (currently amended): A headlight or luminaire with a gas discharge lamp (1) as claimed in claim 1 and with an electrical system for operating the gas discharge lamp (1), which system has a screening (14, 17, 19), wherein the screening (9, 23) of the gas discharge lamp (1) is connected to the screening (14, 17, 19) of the electrical system at least as regards high frequencies so as to form a coaxial screening system enclosing the discharge vessel (2) and its electrodes (4, 5).

13. (new): A gas discharge lamp with

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas discharge lamp so as to form a coaxial screening system enclosing the discharge vessel with the electrodes during operation of the gas discharge lamp,

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wherein at least one of the electrodes is electrically connected to a supply line comprising a screening within a coaxial cable, and the screening of the gas discharge lamp is connected with electrical conduction to the screening of said supply line.

14. (new): A gas discharge lamp comprising:

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas discharge lamp so as to form a coaxial screening system enclosing the discharge vessel with the electrodes during operation of the gas discharge lamp;

wherein at least one of the electrodes is connected to a supply line arranged in parallel to the screening of the gas discharge lamp; and

wherein an inductive element is included in the additional return line.

15. (new): A gas discharge lamp comprising:

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel and comprises connection means for providing an at least high-frequency connection between the screening and a screening of an electrical system used for operating the gas

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discharge lamp, so as to form a coaxial screening system enclosing the discharge vessel

with the electrodes during operation of the gas discharge lamp;

wherein the screening of the gas discharge lamp serves as a supply line and is

electrically connected to one of the electrodes, and

wherein the screening of the gas discharge lamp is coupled to a screening of a

lampholder via a capacitive component during operation of the gas discharge lamp.

16. (new): A gas discharge lamp comprising:

a discharge vessel,

electrodes projecting into the discharge vessel,

a translucent, electrically conductive screening which screens the discharge vessel

and comprises connection means for providing an at least high-frequency connection

between the screening and a screening of an electrical system used for operating the gas

discharge lamp, so as to form a coaxial screening system enclosing the discharge vessel

with the electrodes during operation of the gas discharge lamp,

wherein the screening of the gas discharge lamp serves as a supply line and is

electrically connected to one of the electrodes, and

wherein the screening of the gas discharge lamp is connected to another one of the

electrodes via a capacitive component.

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